



Blast 2 Sequences results

PubMed

Entrez

BLAST

OMIM

Taxonomy

Structure

BLAST 2 SEQUENCES RESULTS VERSION BLASTN 2.2.6 [Apr-09-2003]

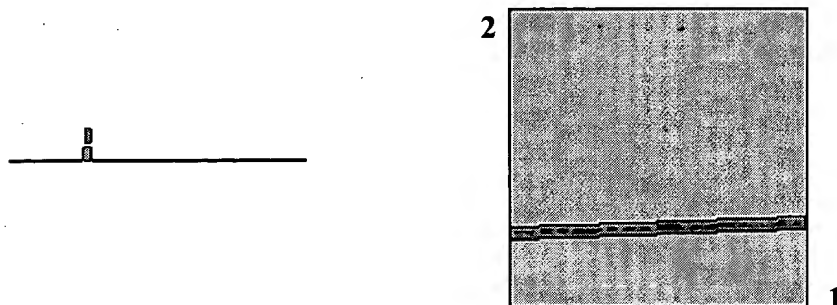
Match: Mismatch: gap open: gap extension:
x_dropoff: expect: wordsize: ☐ Filter ☒ Align

Sequence 1 lcl|seq_1

Length 117 (1 .. 117)

Sequence 2 gi 307165 Human myeloid cell differentiation protein (MCL1)
mRNA.

Length 3934 (1 .. 3934)



NOTE: The statistics (bitscore and expect value) is calculated based on the size of nr database

NOTE: If protein translation is reversed, please repeat the search with reverse strand of the query sequence

Score = 225 bits. (117), Expect = 1e-56
Identities = 117/117 (100%)
Strand = Plus / Plus

Query: 1 gatggggttgtggagttcttccatgtagaggacctagaaggtggcatcaggaatgtgctg 60
Sbjct: 997 gatggggttgtggagttcttccatgtagaggacctagaaggtggcatcaggaatgtgctg 1056
Query: 61 ctggcttttgcagggtgttgctggagtaggagctgggttggcatatctaataagatag 117
Sbjct: 1057 ctggcttttgcagggtgttgctggagtaggagctgggttggcatatctaataagatag 1113

CPU time: 0.02 user secs. 0.00 sys. secs 0.02 total secs.

Lambda K H
1.33 0.621 1.12

Gapped
Lambda K H
1.33 0.621 1.12

Matrix: blastn matrix:1 -2

3768-3884

Gap Penalties: Existence: 5, Extension: 2
Number of Hits to DB: 1
Number of Sequences: 0
Number of extensions: 1
Number of successful extensions: 1
Number of sequences better than 10.0: 1
Number of HSP's better than 10.0 without gapping: 1
Number of HSP's successfully gapped in prelim test: 0
Number of HSP's that attempted gapping in prelim test: 0
Number of HSP's gapped (non-prelim): 1
length of query: 117
length of database: 8,612,495,175
effective HSP length: 23
effective length of query: 94
effective length of database: 8,612,495,152
effective search space: 809574544288
effective search space used: 809574544288
T: 0
A: 0
X1: 6 (11.5 bits)
X2: 26 (50.0 bits)
S1: 12 (23.8 bits)
S2: 19 (37.2 bits)



Blast 2 Sequences results

PubMed

Entrez

BLAST

OMIM

Taxonomy

Structure

BLAST 2 SEQUENCES RESULTS VERSION BLASTN 2.2.6 [Apr-09-2003]

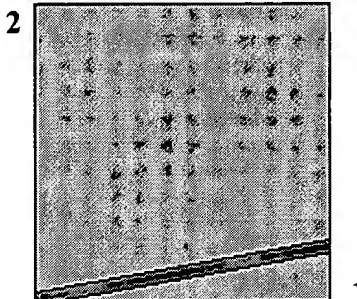
Match: Mismatch: gap open: gap extension:
x_dropoff: expect: wordsize: ☐ Filter ☒ Align

Sequence 1 lcl|seq_1

Length 688 (1 .. 688)

Sequence 2 gi 307165 Human myeloid cell differentiation protein (MCL1)
mRNA.

Length 3934 (1 .. 3934)



NOTE: The statistics (bitscore and expect value) is calculated based on the size of nr database

NOTE: If protein translation is reversed, please repeat the search with reverse strand of the query sequence

Score = 1285 bits (668), Expect = 0.0
Identities = 679/688 (98%)
Strand = Plus / Plus

```
Query: 1  atgtttggcctcaaaagaaacgcggtaatcggactcaacctctactgtnnnnnnnccggc 60
          |||
Sbjct: 61  atgtttggcctcaaaagaaacgcggtaatcggactcaacctctactgtgggggggcccggc 120

Query: 61  ttgggggcccggcagcggcgccaccgcccgggagggcgacttttggctacggagaag 120
          |||
Sbjct: 121 ttgggggcccggcagcggcgccaccgcccgggagggcgacttttggctacggagaag 180

Query: 121 gaggcctcggcccggcgagagatagggggaggggagggcgcgcggtgattggcggaagc 180
          |||
Sbjct: 181 gaggcctcggcccggcgagagatagggggaggggagggcgcgcggtgattggcggaagc 240

Query: 181 gccggcgcaagcccccgctccaccctcacgccagactcccggaggggtcgcgcgggccgccc 240
          |||
Sbjct: 241 gccggcgcaagcccccgctccaccctcacgccagactcccggaggggtcgcgcgggccgccc 300
```

```
Query: 241 cccattggcgccgaggtccccgacgtcacccgcgacccccgcgaggctgcttttcttcgcg 300
          |||
Sbjct: 301 cccattggcgccgaggtccccgacgtcacccgcgacccccgcgaggctgcttttcttcgcg 360

Query: 301 cccacccgcccgcgcccgcgcttgaggagatggaagccccgcgctgacgccatcatg 360
          |||
Sbjct: 361 cccacccgcccgcgcccgcgcttgaggagatggaagccccgcgctgacgccatcatg 420

Query: 361 tcgcccgaagaggagctggacgggtacgagccggagcctctcggaagcggccggtgtc 420
          |||
Sbjct: 421 tcgcccgaagaggagctggacgggtacgagccggagcctctcggaagcggccggtgtc 480

Query: 421 ctgccgctgctggagttggtcggggaatctggttaataacaccagtacggacgggtcacta 480
          |||
Sbjct: 481 ctgccgctgctggagttggtcggggaatctggttaataacaccagtacggacgggtcacta 540

Query: 481 ccctcgacgccgccgcccagcagaggaggaggaggacgacttgaccggcagtcgctggag 540
          |||
Sbjct: 541 ccctcgacgccgccgcccagcagaggaggaggaggacgagttgaccggcagtcgctggag 600

Query: 541 attatctctcggtaccttcgggagcaggccaccggcgccaaggacacaaagccaatgggc 600
          |||
Sbjct: 601 attatctctcggtaccttcgggagcaggccaccggcgccaaggacacaaagccaatgggc 660

Query: 601 aggtctggggccaccagcaggaaggcgctggagaccttacgacgggttggggatggcggtg 660
          |||
Sbjct: 661 aggtctggggccaccagcaggaaggcgctggagaccttacgacgggttggggatggcggtg 720

Query: 661 cagcgcaaccacgagacggccttccaag 688
          |||
Sbjct: 721 cagcgcaaccacgagacggccttccaag 748
```

CPU time: 0.02 user secs. 0.00 sys. secs 0.02 total secs.

Lambda	K	H
1.33	0.621	1.12

Gapped Lambda	K	H
1.33	0.621	1.12

Matrix: blastn matrix:1 -2

Gap Penalties: Existence: 5, Extension: 2

Number of Hits to DB: 5

Number of Sequences: 0

Number of extensions: 5

Number of successful extensions: 3

Number of sequences better than 10.0: 1

Number of HSP's better than 10.0 without gapping: 1

Number of HSP's successfully gapped in prelim test: 0

Number of HSP's that attempted gapping in prelim test: 0

Number of HSP's gapped (non-prelim): 1

length of query: 688

length of database: 8,612,495,175

effective HSP length: 24

effective length of query: 664

effective length of database: 8,612,495,151

effective search space: 5718696780264

effective search space used: 5718696780264

T: 0

A: 0

X1: 6 (11.5 bits)

X2: 26 (50.0 bits)

S1: 12 (23.8 bits)

S2: 20 (39.1 bits)



Blast 2 Sequences results

PubMed

Entrez

BLAST

OMIM

Taxonomy

Structure

BLAST 2 SEQUENCES RESULTS VERSION BLASTN 2.2.6 [Apr-09-2003]

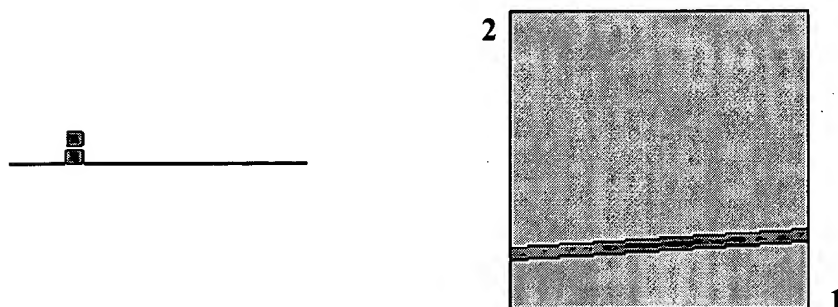
Match: Mismatch: gap open: gap extension:
 x_dropoff: expect: wordsize: Filter ☒ Align

Sequence 1 lcl|seq_1

Length 248 (1 .. 248)

Sequence 2 gi 307165 Human myeloid cell differentiation protein (MCL1) mRNA.

Length 3934 (1 .. 3934)



NOTE: The statistics (bitscore and expect value) is calculated based on the size of nr database

NOTE: If protein translation is reversed, please repeat the search with reverse strand of the query sequence

Score = 477 bits (248), Expect = e-132
 Identities = 248/248 (100%)
 Strand = Plus / Plus.

```

Query: 1   gcatgcttcggaactggacatcaaaaacgaagacgatgtgaaatcgttgtctcgagtga 60
          |||
Sbjct: 749 gcatgcttcggaactggacatcaaaaacgaagacgatgtgaaatcgttgtctcgagtga 808

Query: 61   tgatccatgttttcagcgacggcgtaacaaactggggcaggattgtgactctcatttctt 120
          |||
Sbjct: 809 tgatccatgttttcagcgacggcgtaacaaactggggcaggattgtgactctcatttctt 868

Query: 121  ttggtgcctttgtggctaaacacttgaagaccataaaccaagaaagctgcatcgaaccat 180
          |||
Sbjct: 869 ttggtgcctttgtggctaaacacttgaagaccataaaccaagaaagctgcatcgaaccat 928

Query: 181  tagcagaaagtatcacagacgttctcgtaaggacaaaacgggactggctagttaaacaaa 240
          |||
Sbjct: 929 tagcagaaagtatcacagacgttctcgtaaggacaaaacgggactggctagttaaacaaa 988
  
```

Query: 241 gaggctgg 248

|||||||

Sbjct: 989 gaggctgg 996

CPU time: 0.02 user secs. 0.01 sys. secs 0.03 total secs.

Lambda	K	H
1.33	0.621	1.12

Gapped

Lambda	K	H
1.33	0.621	1.12

Matrix: blastn matrix:1 -2

Gap Penalties: Existence: 5, Extension: 2

Number of Hits to DB: 1

Number of Sequences: 0

Number of extensions: 1

Number of successful extensions: 1

Number of sequences better than 10.0: 1

Number of HSP's better than 10.0 without gapping: 1

Number of HSP's successfully gapped in prelim test: 0

Number of HSP's that attempted gapping in prelim test: 0

Number of HSP's gapped (non-prelim): 1

length of query: 248

length of database: 8,612,495,175

effective HSP length: 24

effective length of query: 224

effective length of database: 8,612,495,151

effective search space: 1929198913824

effective search space used: 1929198913824

T: 0

A: 0

X1: 6 (11.5 bits)

X2: 26 (50.0 bits)

S1: 12 (23.8 bits)

S2: 20 (39.1 bits)